

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4500004/RWE/BJD/MTT	APPLICATION NO. 09/677,574
	APPLICANT YANG <i>et al.</i>	
	FILING DATE October 3, 2000	GROUP Art Unit 1652

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	36	Creighton, S., <i>et al.</i> , "Base Mismatch Extension Kinetics," <i>J. Biol. Chem.</i> 267:2633-2639, American Society for Biochemistry and Molecular Biology (1992)
RH	AS	36	Eckert, K.A. and Kunkel, T.A., "Fidelity of DNA synthesis catalyzed by human DNA polymerase $\alpha$ and HIV-1 reverse transcriptase: effect of reaction pH," <i>Nucleic Acids Res.</i> 21:5212-5220, Oxford University Press (1993)
RH	AT	36	Gao, G. <i>et al.</i> , "Conferring RNA polymerase Activity to a DNA polymerase: A single residue in reverse transcriptase controls substrate selection," <i>Proc. Nat. Acad. Sci. USA</i> 94:407-411, The National Academy of Sciences (January 1997)

EXAMINER 	DATE CONSIDERED 4/10/02
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FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RB	AR	37	Co-pending U.S. Patent Application No. 09/808,124 filed on March 15, 2001.
RB	AS	37	Co-pending U.S. Patent Application No. 09/845,157 filed on May 1, 2001.
	AT		

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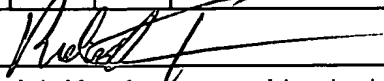
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RB	AA1	4,795,699	01/03/1989	Tabor et al.	435	5	01/14/1987
	AB1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
	AC1	4,962,020	10/09/1990	Tabor et al.	435	6	07/12/1988
	AD1	5,047,342	09/10/1991	Chatterjee, D.K.	435	194	08/10/1989
	AE1	5,075,217	12/24/1991	Weber, J.L.	435	6	04/21/1989
	AF1	5,079,352	01/07/1992	Gelfand et al.	536	27	05/15/1990
	AG1	5,173,411	12/22/1992	Tabor et al.	435	91	04/12/1991
	AH1	5,270,170	12/14/1993	Schatz et al.	435	7.37	10/16/1991
	AI1	5,270,179	12/14/1993	Chatterjee, D.K.	435	69.1	01/28/1992
	AJ1	5,306,616	04/26/1994	Lupski et al.	435	6	06/06/1991
RB	AK1	5,364,759	11/15/1994	Caskey et al.	435	6	01/31/1991

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RH	AL1	EP 0 329 822 A2	08/30/1989	Europe	—	—	Yes No
	AM1	DE 38 34 636 A1	04/19/1990	Germany	—	—	Yes No
	AN1	WO 90/08839	08/09/1990	WIPO	—	—	Yes No
	AO1	WO 91/02090	02/21/1991	WIPO	—	—	Yes No
RB	AP1	WO 91/16446	10/31/1991	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	1	Abramson, R.D., and Gelfand, D.H., "Characterization of the Strand Displacement and Nick Translation Activities of <i>Thermus aquaticus</i> DNA Polymerase," <i>Abstracts of the American Society of Microbiology, 92<sup>nd</sup> General Meeting, May 26-30, 1992, p. 200, Abstract No. H-105, American Society for Microbiology (1992).</i>
RH	AS	1	Adams, M.D. et al., "Sequence identification of 2,375 human brain genes," <i>Nature</i> 355:632-634, Macmillan Publishers Ltd (1992).
RH	AT	1	Astatke, M. et al., "Deoxynucleoside Triphosphate and Pyrophosphate Binding Sites in the Catalytically Competent Ternary Complex for the Polymerase Reaction Catalyzed by DNA Polymerase I (Klenow Fragment)," <i>J. Biol. Chem.</i> 270:1945-1954, The American Society for Biochemistry and Molecular Biology, Inc. (1995).

EXAMINER 	DATE CONSIDERED 9/10/02
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RH	AA2	5,369,004	11/29/1994	Polymeropoulos et al.	435	6	07/31/1992
	AB2	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
	AC2	5,378,602	01/03/1995	Polymeropoulos et al.	435	6	11/27/1991
	AD2	5,409,818	04/25/1995	Davey et al.	435	91.21	06/24/1988
	AE2	5,413,908	05/09/1995	Jeffreys, A.J.	435	6	07/29/1992
	AF2	5,420,029	05/30/1995	Gelfand et al.	435	194	08/13/1991
	AG2	5,436,142	07/25/1995	Wigler et al.	435	91.2	11/12/1992
	AH2	5,436,149	07/25/1995	Barnes, W.M.	435	194	02/19/1993
	AI2	5,455,166	10/03/1995	Walker, G.T.	435	91.2	01/09/1992
	AJ2	5,459,039	10/17/1995	Modrich et al.	435	6	03/18/1994
RH	AK2	5,466,591	11/14/1995	Abramson et al.	435	194	02/23/1993

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RH	AL2	WO 92/03556	03/05/1992	WIPO	—	—	Yes No
	AM2	WO 92/06200	04/16/1992	WIPO	—	—	Yes No
	AN2	WO 92/06202	04/16/1992	WIPO	—	—	Yes No
	AO2	EP 0 516 245 A1	12/02/1992	Europe	—	—	Yes No
RH	AP2	WO 93/02212	02/04/1993	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science Publishers B.V. (1992).
	AS	2	Basu, A. and Modak, M.J., "Identification and Amino Acid Sequence of the Deoxynucleoside Triphosphate Binding Site in <i>Escherichia coli</i> DNA Polymerase I," <i>Biochem.</i> 26:1704-1709, American Chemical Society (1987).
	AT	2	Bebenek, K. et al., "The Fidelity of DNA Synthesis Catalyzed by Derivatives of <i>Escherichia coli</i> DNA Polymerase I," <i>J. Biol. Chem.</i> 265:13878-13887, The American Society for Biochemistry and Molecular Biology (1990).

EXAMINER	<i>RH</i>	DATE CONSIDERED	4/10/02
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RV	AA3	5,468,610	11/21/1995	Polymeropoulos et al.	435	6	06/09/1993
	AB3	5,468,613	11/21/1995	Erlich et al.	435	6	03/09/1990
	AC3	5,498,523	03/12/1996	Tabor et al.	435	6	07/14/1994
	AD3	5,512,462	04/30/1996	Cheng, S.	435	91.2	02/25/1994
	AE3	H1531	05/07/1996	Blumentals et al.	435	194	04/18/1994
	AF3	5,556,955	09/17/1996	Vergnaud, G.	536	24.31	09/08/1994
	AG3	5,565,340	10/15/1996	Chenchik et al.	435	91.2	01/27/1995
	AH3	5,599,672	02/04/1997	Liang et al.	435	6	12/08/1994
	AI3	5,614,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AJ3	5,618,711	04/08/1997	Geland et al.	435	194	02/06/1995
RV	AK3	5,624,833	04/29/1997	Gelfand et al.	435	194	06/07/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RV	AL3	EP 0 534 858 A1	03/31/1993	Europe	—	—	Yes No
	AM3	WO 93/06239	04/01/1993	WIPO	—	—	Yes No
	AN3	EP 0 386 859 B1	02/01/1995	Europe	—	—	Yes No
	AO3	EP 0 351 138 B1	03/08/1995	Europe	—	—	Yes No
RV	AP3	WO 95/13369	05/18/1995	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RV	AR	3	Beese, L.S. et al., "Crystal Structures of the Klenow Fragment of DNA Polymerase I Complexed with Deoxynucleoside Triphosphate and Pyrophosphate," <i>Biochem. 32:14095-14101</i> , American Chemical Society (1993).
	AS	3	Bergquist, P.L. et al., "Genetics and Potential Biotechnological Applications of Thermophilic and Extremely Thermophilic Microorganisms," in: <i>Biotechnology and Genetic Engineering Reviews, Volume 5</i> , Russell, G.E. ed., Intercept Limited, Dorset, England, publisher, pp.199-244 (1987).
RV	AT	3	Bernad, A. et al., "A Conserved 3'→5' Exonuclease Active Site in Prokaryotic and Eukaryotic DNA Polymerases," <i>Cell 59:219-228</i> , Cell Press (1989).

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RH	AA4	5,766,847	06/16/1998	Jäckle et al.	435	6	11/04/1993
	AB4	5,885,813	03/23/1999	Davis et al.	435	183	05/14/1996
	AC4	5,912,155	06/15/1999	Chatterjee et al.	435	194	01/09/1995
	AD4	5,939,292	08/17/1999	Gelfand et al.	435	91.2	08/05/1997
	AE4	5,972,603	10/26/1999	Bedford et al.	435	6	05/31/1996
	AF4	5,976,842	11/02/1999	Wurst, H.	435	91.2	10/30/1997
RV	AG4	6,001,645	12/14/1999	Slater et al.	435	320.1	06/07/1995
	AH4	6,015,668	01/18/2000	Hughes et al.	435	6	09/06/1996
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RH	AL4	EP 0 655 506 A1	05/31/1995	Europe	—	—	Yes No
	AM4	WO 95/14782	06/01/1995	WIPO	—	—	Yes No
	AN4	EP 0 684 315 A1	11/29/1995	Europe	—	—	Yes No
	AO4	WO 95/33853	12/14/1995	WIPO	—	—	Yes No
RV	AP4	WO 96/10640	04/11/1996	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RH	AR	4	Blanco, L. et al., "Evidence favouring the hypothesis of a conserved 3'→5' exonuclease active site in DNA-dependent DNA polymerases," <i>Gene</i> 112:139-144, Elsevier Science Publishers B.V. (1992).
RH	AS	4	Bost, S. et al., "Enzymatic Characterization of <i>Thermotoga maritima</i> DNA Polymerase and a Truncated Form, <i>Ultma</i> DNA Polymerase," <i>FASEB J.</i> 8:A1395, Abstract 794, American Society for Biochemistry and Molecular Biology (1994).
RV	AT	4	Botstein, D. et al., "Construction of a Genetic Linkage Map in Man Using Restriction Fragment Length Polymorphisms," <i>Am. J. Hum. Genet.</i> 32:314-331, American Society of Human Genetics (1980).

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RB	AL5	WO 96/27680	09/12/1996	WIPO	1	1	Yes No
	AM5	WO 96/38568	12/05/1996	WIPO	1	1	Yes No
	AN5	WO 96/41014	12/19/1996	WIPO	1	1	Yes No
	A05	WO 97/09451	03/13/1997	WIPO	1	1	Yes No
RV	AP5	EP 0 258 017 B1	06/04/1997	Europe	1	1	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RV	AR	5	Braithwaite, D.K. and Ito, J., "Compilation, alignment, and phylogenetic relationships of DNA Polymerases," <i>Nucleic Acids Res.</i> 21:787-802, Oxford University Press (1993).
1	AS	5	Caetano-Anollés, G. et al., "DNA Amplification Fingerprinting Using Very Short Arbitrary Oligonucleotide Primers," <i>BIO/TECH.</i> 9:553-557, Nature Publishing Company (1991).
RH	AT	5	Carroll, S.S. et al., "A Mutant of DNA Polymerase I (Klenow Fragment) with Reduced Fidelity," <i>Biochem.</i> 30:804-813, American Chemical Society (1991).

EXAMINER <span style="font-family: cursive;">RSE</span>	DATE CONSIDERED <span style="font-family: cursive;">2/10/02</span>
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RW	AL6	WO 97/37042	10/09/1997	WIPO	1	1	Yes No
	AM6	WO 98/23733	06/04/1998	WIPO	1	1	Yes No
	AN6	EP 0 892 058 A2	01/20/1999	Europe	1	1	Yes No
RW	AO6	WO 99/10366	03/04/1999	WIPO	1	1	Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RH	AR	6	Chien, A. et al., "Deoxyribonucleic Acid Polymerase from the Extreme Thermophile <i>Thermus aquaticus</i> ," <i>J. Bacteriology</i> 127:1550-1557, American Society for Microbiology (1976).
RH	AS	6	Cochran, B.H. et al., "Expression of the c-fos Gene and of an fos-Related Gene is Stimulated by Platelet-Derived Growth Factor," <i>Science</i> 226:1080-1082, American Association for the Advancement of Science (1984).
RH	AT	6	Darzins, A., and Chakrabarty, A.M., "Cloning of Genes Controlling Alginate Biosynthesis from a Mucoïd Cystic Fibrosis Isolate of <i>Pseudomonas aeruginosa</i> ," <i>J. Bacteriol.</i> 159:9-18, American Society for Microbiology (1984).

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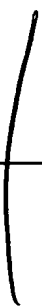
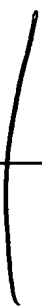
  

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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	Z	Das, S.K. and Fujimura, R.K., "Mechanism of T5-induced DNA Polymerase. I. Replication of Short Primer Templates," <i>J. Biol. Chem.</i> 252:8700-8707, American Society of Biological Chemists, Inc. (1977).
	AS	Z	Das, S.K. and Fujimura, R.K., "Processiveness of DNA Polymerases. A Comparative Study Using a Simple Procedure," <i>J. Biol. Chem.</i> 254:1227-1232, American Society of Biological Chemists, Inc. (1979).
	AT	Z	Delarue, M. <i>et al.</i> , "An attempt to unify the structure of polymerases," <i>Protein Engineering</i> 3:461-467, Oxford University Press (1990).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<div style="font-size: 2em; font-family: cursive;">PV</div>	AR	8	Derbyshire, V. <i>et al.</i> , "Genetic and Crystallographic Studies of the 3'→5' Exonucleolytic Site of DNA Polymerase I," <i>Science</i> 240:199-201, American Association for the Advancement of Science (1988).
<div style="font-size: 3em; font-family: cursive;">I</div>	AS	8	Derbyshire, V. <i>et al.</i> , "The 3'→5' exonuclease of DNA Polymerase I of <i>Escherichia coli</i> : contribution of each amino acid at the active site to the reaction," <i>EMBO J.</i> 10:17-24, Oxford University Press (1990).
	AT	8	Dong, Q. and Wang, T.S.-F., "Mutational Studies of Human DNA Polymerase $\alpha$ ," <i>J. Biol. Chem.</i> 270:21563-21570, The American Society for Biochemistry and Molecular Biology, Inc. (1995).

EXAMINER <span style="font-size: 1.5em; font-family: cursive;">[Signature]</span>	DATE CONSIDERED <span style="font-size: 1.5em; font-family: cursive;">H/10/00</span>
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Donlin, M.J. and Johnson, K.A., "Mutants Affecting Nucleotide Recognition by T7 DNA Polymerase," <i>Biochem.</i> 33:14908-14917, American Chemical Society (1994).
	AS	2	Drosopoulos, W.C. and Prasad, V.R., "Increased Polymerase Fidelity of E89G, a Nucleoside Analog-Resistant Variant of Human Immunodeficiency Virus Type 1 Reverse Transcriptase," <i>J. Virology</i> 70:4834-4838, American Society for Microbiology (July 1996).
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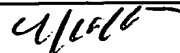
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Eger, B.T. et al., "Mechanism of DNA Replication Fidelity for Three Mutants of DNA-Polymerase I: Klenow fragment KF(exo+), KF(polA5), and KF(exo)," <i>Biochem. 30:1441-1448</i> , American Chemical Society (1991).
	AS	10	Elie, C. et al., "Thermostable DNA polymerase from the archaeobacterium <i>Sulfolobus acidocaldarius</i> : Purification, characterization and immunological properties," <i>Eur. J. Biochem. 178:619-626</i> , Federation of European Biochemical Societies (1989).
	AT	10	Freemont, P.S. et al., "A Domain of the Klenow Fragment of <i>Escherichia coli</i> DNA Polymerase I Has Polymerase but No Exonuclease Activity," <i>Proteins: Structure, Function and Genetics 1:66-73</i> , Alan R. Liss, Inc. (1986).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RH	AR	11	Fujimura, R.K. and Roop, B.C., "Characterization of DNA Polymerase Induced by Bacteriophage T5 with DNA Containing Single Strand Breaks," <i>J. Biol. Chem.</i> 251:2168-2175, The American Society of Biological Chemists, Inc. (1976).
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	AR	12	Gubler, U. and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," <i>Gene</i> 25:263-269, Elsevier Science Publishers (1983).
	AS	12	Gutman, P.D. and Minton, K.W., "Conserved sites in the 5'→3' exonuclease domain of <i>Escherichia coli</i> DNA Polymerase," <i>Nucleic Acids Res.</i> 21:4406-4407, Oxford University Press (1993).
	AT	12	Heath, D.D. <i>et al.</i> , "PCR primed with VNTR core sequences yields species specific patterns and hypervariable probes," <i>Nucl. Acids Res.</i> 21:5782-5785, Oxford University Press (1993).

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	AR	<u>13</u>	Hedrick, S.M. <i>et al.</i> , "Isolation of cDNA clones encoding T cell-specific membrane-associated proteins," <i>Nature</i> 308:149-153, Macmillan Publishers Ltd (1984).
	AS	<u>13</u>	Hite, J.M. <i>et al.</i> , "Factors affecting fidelity of DNA synthesis during PCR amplification of d(C-A) <sub>n</sub> -d(G-T) <sub>n</sub> microsatellite repeats," <i>Nucleic Acids Res.</i> 24:2429-2434, Oxford University Press (June 1996).
	AT	<u>13</u>	Holmström, K. <i>et al.</i> , "A Highly Sensitive and Fast Nonradioactive Method for Detection of Polymerase Chain Reaction Products," <i>Anal. Biochem.</i> 209:278-283, Academic Press, Inc. (1993).

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RV	AR	14	Huber, R. et al., "Thermotoga maritima sp. nov. represents a new genus of unique extremely thermophilic eubacteria growing up to 90°C," Arch. Microbiol. 144:324-333, Springer-Verlag (1986).
I	AS	14	Huser, B.A. et al., "Isolation and characterisation of a novel extremely thermophilic, anaerobic, chemo-organotrophic eubacterium," FEMS Microbiol. Lett. 37:121-127, Federation of European Microbiological Societies (1986).
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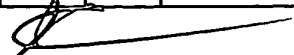
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RB     	AR	15	Ivanova, N.B. and Belyavsky, A.V., "Identification of differentially expressed genes by restriction endonuclease-based gene expression fingerprinting," <i>Nucl. Acids Res.</i> 23:2954-2958, Oxford University Press (1995).
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	AT	15	Joyce, C.M. <i>et al.</i> , "Nucleotide Sequence of the <i>Escherichia coli</i> <i>polA</i> Gene and Primary Structure of DNA Polymerase I," <i>J. Biol. Chem.</i> 257:1958-1964, American Society for Biochemistry and Molecular Biology, Inc. (1982).

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	AR	16	Joyce, C.M., "Can DNA polymerase I (Klenow fragment) serve as a model for other polymerases?," <i>Current Opinion in Structural Biology</i> 1:123-129, Current Biology Ltd (1991).
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	AR	17	Kaledin, A.S. <i>et al.</i> , "Isolation and Properties of DNA Polymerase from Extremely Thermophilic Bacteria <i>Thermus aquaticus</i> YT-1," <i>Biokhimiya</i> 45:644-651, Nauka (1980).
	AS	17	Kelly, R.M. and Deming, J.W., "Extremely Thermophilic Archaeobacteria: Biological and Engineering Considerations," <i>Biotechnology Progress</i> 4:47-62, American Chemical Society and the American Institute of Chemical Engineers (1988).
	AT	17	Klausner, A. and Wilson, T., "Gene Detection Technology Opens Doors for Many Industries," <i>BIO/TECH.</i> p. 471-478, Nature Publishing Company (1983).

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	AR	<u>18</u>	Klimczak, L.J. <i>et al.</i> , "Purification and Characterization of DNA Polymerase from the Archaeobacterium <i>Methanobacterium thermoautotrophicum</i> ," <i>Biochem. 25</i> :4850-4855, American Chemical Society (1986).
	AS	<u>18</u>	Lau, L.F. and Nathans, D., "Identification of a set of genes expressed during the G0/G1 transition of cultured mouse cells," <i>EMBO J. 4</i> :3145-3151, IRL Press Ltd (1985).
	AT	<u>18</u>	Lawyer, F.C. <i>et al.</i> , "Isolation, Characterization, and Expression in <i>Escherichia coli</i> of the DNA Polymerase Gene from <i>Thermus aquaticus</i> ," <i>J. Biol. Chem. 264</i> :6427-6437, The American Society for Biochemistry and Molecular Biology, Inc. (1989).

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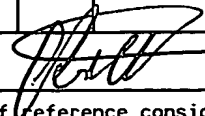
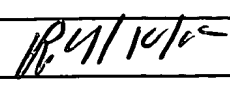
  

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	AR	19	Lawyer, F.C. <i>et al.</i> , "The DNA Polymerase I Gene from the Extreme Thermophile, <i>Thermotoga maritima</i> : Identification, Cloning, and Expression of Full-Length and Truncated Forms in <i>Escherichia coli</i> ," <i>Abstracts of the American Society of Microbiology</i> , 92 <sup>nd</sup> General Meeting, May 26-30, 1992, p. 200, Abstract No. H-104, American Society for Microbiology (1992).
	AS	19	Leavitt, M.C. and Ito, J. "T5 DNA polymerase: Structural-functional relationships to other DNA polymerases," <i>Proc. Natl. Acad. Sci. USA</i> 86:4465-4469, National Academy of Sciences of the USA (1989).
	AT	19	Lee, C.C. <i>et al.</i> , "Generation of cDNA Probes Directed by Amino Acid Sequence: Cloning of Urate Oxidase," <i>Science</i> 239:1288-1291, American Association for the Advancement of Science (1988).

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RB	AR	20	Lin, J.-J. <i>et al.</i> , "DH12S: A New Electrocompetent <i>E. coli</i> Strain for the Production of Highly Purified Single-Stranded DNA Using Phagemid Vectors," <i>FOCUS</i> 14:98-101, Life Technologies, Inc. (1992).
I	AS	20	Lin, J.-J. and Kuo, J., "AFLP™: A Novel PCR-Based Assay for Plant and Bacterial DNA Fingerprinting," <i>FOCUS</i> 17:66-70, Life Technologies, Inc. (1995).
I	AT	20	Lin, J.-J. <i>et al.</i> , "Identification of Molecular Markers in Soybean Comparing RFLP, RAPD, and AFLP DNA Mapping Techniques," <i>Plant Mol. Biol. Reporter</i> 14:156-169, International Society for Plant Molecular Biology (June 1996).

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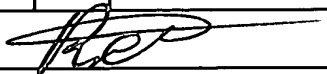
  

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	AR	<u>21</u>	Lin, J.-J. et al., "Effect of Different Primer Combinations on the Resolution of AFLP™ in Plants with Small Genomes," <i>FOCUS</i> 18:68-69, Life Technologies, Inc. (November 1996).
	AS	<u>21</u>	Lin, J.-J. et al., "Chemiluminescent Detection of AFLP™ Fingerprints," <i>FOCUS</i> 19:36-38, Life Technologies, Inc. (July 1997).
	AT	<u>21</u>	Lin, T.-C. et al., "Cloning and expression of T4 DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 84:7000-7004, National Academy of Sciences of the USA (1987).




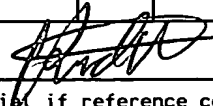
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	22	Maniatis, T. <i>et al.</i> , "The Isolation of Structural Genes from Libraries of Eucaryotic DNA," <i>Cell</i> 15:687-701, MIT Press (1978).
	AS	22	Minkley, Jr. E.C. <i>et al.</i> , "Escherichia coli DNA Polymerase I: Construction of a <i>polA</i> Plasmid for Amplification and an Improved Purification Scheme," <i>J. Biol. Chem.</i> 259:10386-10392, The American Society of Biological Chemists, Inc. (1984).
	AT	22	Okayama, H. and Berg, P., "High-Efficiency Cloning of Full-Length cDNA," <i>Mol. Cell. Biol.</i> 2:161-170, American Society for Microbiology (1982).
EXAMINER 			DATE CONSIDERED 11/10/02
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U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	23	Ollis, D.L. <i>et al.</i> , "Structure of large fragment of <i>Escherichia coli</i> DNA polymerase I complexed with dTMP," <i>Nature</i> 313:762-766, Macmillan Publishers Ltd (1985).
	AS	23	Pandey, V.N. <i>et al.</i> , "Role of Lysine 758 of <i>Escherichia coli</i> DNA Polymerase I as Assessed by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 269:13259-13265, The American Society for Biochemistry and Molecular Biology, Inc. (1994).
	AT	23	Pandey, V.N. <i>et al.</i> , "Role of Methionine 184 of Human Immunodeficiency Virus Type-1 Reverse Transcriptase in the Polymerase Function and Fidelity of DNA Synthesis," <i>Biochem.</i> 35:2168-2179, American Chemical Society (February 1996).

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
R#	AR	24	Pelletier, H. <i>et al.</i> , "Structures of Ternary Complexes of Rat DNA Polymerase $\beta$ , a DNA Template-Primer, and ddCTP," <i>Science</i> 264:1891-1903, American Association for the Advancement of Science (1994).
	AS	24	Polesky, A.H. <i>et al.</i> , "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, The American Society for Biochemistry and Molecular Biology, Inc. (1990).
	AT	24	Polesky, A.H. <i>et al.</i> , "Side Chains Involved in Catalysis of the Polymerase Reaction of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 267:8417-8428, The American Society for Biochemistry and Molecular Biology, Inc. (1992).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Rb	AR	25	Prasad, V.R. <i>et al.</i> , "Isolation and characterization of a dideoxyguanosine triphosphate-resistant mutant of human immunodeficiency virus reverse transcriptase," <i>Proc. Natl. Acad. Sci. USA</i> 88:11363-11367, National Academy of Sciences of the USA (1991).
	AS	25	Reha-Krantz, L.J. <i>et al.</i> , "Bacteriophage T4 DNA Polymerase Mutations That Confer Sensitivity to the PP <sub>i</sub> Analog Phosphonoacetic Acid," <i>J. Virology</i> 67:60-66, American Society for Microbiology (1993).
	AT	25	Rhoades, M., "New Physical Map of Bacteriophage T5 DNA," <i>J. Virol.</i> 43:566-573, American Society for Microbiology (1982).




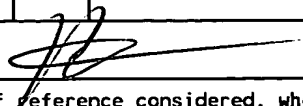
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>26</u>	Rossi, M. <i>et al.</i> , "Structure and Properties of a Thermophilic and Thermostable DNA Polymerase Isolated from <i>Sulfolobus solfataricus</i> ," <i>System. Appl. Microbiol.</i> 7:337-341, Gustav Fischer Verlag (1986).
	AS	<u>26</u>	Sagner, G. <i>et al.</i> , "Rapid filter assay for the detection of DNA polymerase activity: direct identification of the genes for the DNA Polymerase from <i>Thermus aquaticus</i> ," <i>Gene</i> 97:119-123, Elsevier Science Publishers B.V. (1991).
	AT	<u>26</u>	Sawaya, M.R. <i>et al.</i> , "Crystal Structure of Rat DNA Polymerase $\beta$ : Evidence for a Common Polymerase Mechanism," <i>Science</i> 264:1930-1935, American Association for the Advancement of Science (1994).
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RA	AR	27	Shengyu, Y. and Guofan, H., "Heat-Stable DNA Polymerase I Large Fragment Resolves Hairpin Structure in DNA Sequencing," <i>Scientia Sinica, Series B</i> XXX:503-506, Academia Sinica (1987).
	AS	27	Simpson, H.D. <i>et al.</i> , "Purification and some properties of a thermostable DNA polymerase from a <i>Thermotoga</i> species," <i>Biochem. Cell Biol.</i> 68:1292-1296, NRC Research Press (1990).
	AT	27	Slater, M.R. <i>et al.</i> , "DNA Polymerase I of <i>Thermotoga neapolitana</i> (Tne) and Mutant Derivatives," <i>Genome Science Technol.</i> 1:47, Abstract No. A-33, Mary Ann Liebert, Inc. (1995).


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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
RI	AR	28	Song, Q. <i>et al.</i> , "Mutagenesis of the Glu-89 Residue in Human Immunodeficiency Virus Type 1 (HIV-1) and HIV-2 Reverse Transcriptases: Effects on Nucleoside Analog Resistance," <i>J. Virology</i> 66:7568-7571, American Society for Microbiology (1992).
I	AS	28	Sousa, R. <i>et al.</i> , "Crystal structure of bacteriophage T7 RNA polymerase at 3.3 Å resolution," <i>Nature</i> 364:593-599, Macmillan Publishers Ltd (1993).
I	AT	28	Spadari, S. and Weissbach, A., "HeLa Cell R-Deoxyribonucleic Acid Polymerases," <i>J. Biol. Chem.</i> 249:5809-5815, The American Society of Biological Chemists, Inc. (1974).
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	29	Stark, M.J.R., "Multicopy expression vectors carrying the <i>lac</i> repressor gene for regulated high-level expression of genes in <i>Escherichia coli</i> ," <i>Gene</i> 51:255-267, Elsevier Science Publishers B.V. (1987).
	AS	29	Stenesh, J. and Roe, B.A., "DNA Polymerase from Mesophilic and Thermophilic Bacteria. I. Purification and Properties of DNA Polymerase from <i>Bacillus licheniformis</i> and <i>Bacillus stearothermophilus</i> ," <i>Biochimica et Biophysica Acta</i> 272:156-166, Elsevier Science Publishers B.V. (1972).
	AT	29	Suzuki, M. <i>et al.</i> , "Random mutagenesis of <i>Thermus aquaticus</i> DNA polymerase I: Concordance of immutable sites <i>in vivo</i> with the crystal structure," <i>Proc. Natl. Acad. Sci. USA</i> 93:9670-9675, National Academy of Sciences of the USA (September 1996).
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RD	AR	30	Suzuki, M., <i>et al.</i> , "Low Fidelity Mutants in the O-Helix of <i>Thermus aquaticus</i> DNA Polymerase I," <i>J. Biol. Chem.</i> 272:11228-11235, The American Society for Biochemistry and Molecular Biology, Inc. (April 1997).
I	AS	30	Suzuki, M., <i>et al.</i> , "Fidelity Mutants in <i>Thermus aquaticus</i> DNA Polymerase I," <i>Ninth International Genome Sequencing and Analysis Conference, Hilton Head Island, South Carolina, September 13-16, 1997. Microbial and Comparative Genomics 2:226, Abstract C-30, Mary Ann Liebert, Inc. (1997).</i>
I	AT	30	Tabor, S. <i>et al.</i> , " <i>Escherichia coli</i> Thioredoxin Confers Processivity on the DNA Polymerase Activity of the Gene 5 Protein of the Bacteriophage T7," <i>J. Biol. Chem.</i> 262:16212-16223, The American Society for Biochemistry and Molecular Biology, Inc. (1987).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PK	AR	31	Tabor, S. and Richardson, C.C., "Effect of manganese ions on the incorporation of dideoxynucleotide by bacteriophage T7 DNA polymerase and <i>Escherichia coli</i> DNA polymerase I," <i>Proc. Natl. Acad. Sci. USA</i> 86:4076-4080, National Academy of Sciences of the USA (1989).
	AS	31	Tabor, S. and Richardson, C.C., "Selective Inactivation of the Exonuclease Activity of Bacteriophage T7 DNA Polymerase by <i>in Vitro</i> Mutagenesis," <i>J. Biol. Chem.</i> 264:6447-6458, The American Society for Biochemistry and Molecular Biology, Inc. (1989).
	AT	31	Tabor, S. and Richardson, C.C., "A single residue in DNA polymerases of the <i>Escherichia coli</i> DNA polymerase I family is critical for distinguishing between deoxy- and dideoxyribonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> 92:6339-6343, National Academy of Sciences of the USA (1995).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>32</u>	Tanksley, S.D. <i>et al.</i> , "RFLP Mapping in Plant Breeding: New Tools for an Old Science," <i>BIO/TECH.</i> 7:257-264, Nature Publishing Company (1989).
	AS	<u>32</u>	Vos, P. <i>et al.</i> , "AFLP: a new technique for DNA fingerprinting," <i>Nucl. Acids Res.</i> 23:4407-4414, Oxford University Press (1995).
	AT	<u>32</u>	Welsh, J. and McClelland, M., "Fingerprinting genomes using PCR with arbitrary primers," <i>Nucl. Acids Res.</i> 18:7213-7218, Oxford University Press (1990).

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	AO						Yes No
	AP						Yes No

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RH	AR	<u>33</u>	Wilks, A.F., "Two putative protein-tyrosine kinases identified by application of the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86:1603-1607, National Academy of Sciences of the USA (1989).
I	AS	<u>33</u>	Williams, J.G.K. <i>et al.</i> , "DNA polymorphisms amplified by arbitrary primers are useful as genetic markers," <i>Nucl. Acids Res.</i> 18:6531-6535, Oxford University Press (1990).
I	AT	<u>33</u>	Windberger, E. <i>et al.</i> , " <i>Thermotoga thermarum</i> sp. nov. and <i>Thermotoga neapolitana</i> occurring in African continental solfataric springs," <i>Arch. Microbiol.</i> 151:506-512, Springer-Verlag (1989).



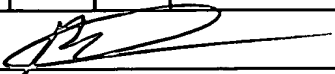
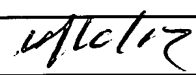
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	34	Yunis, I., <i>et al.</i> , "HLA-DR generic typing by AFLP," <i>Tissue Antigens</i> 38:78-88, Munksgaard International Publishers Ltd (1991).
	AS	34	Dialog File 351, Accession No. 90-156806/199021, Derwent WPI English language abstract for DE 38 34 636 A1 (Document AM1).
	AT	34	Dialog File 351, Accession No. 96-425438/199642, Derwent WPI English language abstract for WO 96/27680 (Document AL5).
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<i>RF</i>	AR	35	International Search Report for corresponding International Application No. PCT/US98/17810, mailed January 15, 1999.
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Creation date: 11-04-2003  
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